OLYMPUS SP-600UZ Microscope Adapter

User's Manual

Microscopic documentation with the Olympus SP-600UZ and microscope adapter"NY-SP600." Please refer to this manual for installation and camera settings.

Parts

Main Unit
Built-in
Relay lens.
SP600 attachment

Conversion Ring
Fit with
eyepieceφ30m
m

C-mount adapter
Connect to
C-mount

Installing adapter

＊First, remove lens cap as shown below..

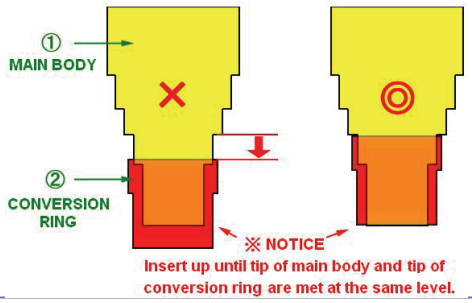
＊ Next

★ Installation to microscope is next page

■ **φ30mm conversion ring,**

Insert adapter all the way down the ring.

It should be fit tight.



■ **C-mount adapter,**

First, screw C-mount adapter into microscope's C-mount.

Second, insert main unit (with φ30mm conversion ring)

into C-mount adapter and secure with screw on the side.

Installing to Microscope

Installing to Eyepiece

Insert adapter to eyepiece tube. (remove eyepiece first).

If tube's inside diameter is φ30mm, first install conversion ring to main unit, then slide it into eyepiece. If tube's inside diameter is φ23.2mm, insert the main unit directly to eyepiece. * Adapter would start rotate when diopter adjusting ring is attached to eyepiece. In such case, please insert the adapter after turning diopter adjusting ring to either end.

Nikon F phototube

Insert main unit to Nikon F phototube. Recent Nikon trinocular microscope is usually equipped with V-T phototube for F-phototube. In old model, Optiphot, Biophot, SMZ-2T trinocular are applicable. If microscope is equipped with 35mm camera or Polaroid system, it is usually same as old model.

※SMZ-10 require optional sleeve. ※Adapter would start rotate when diopter adjusting ring is attached to eyepiece. In such case, please insert the adapter after turning diopter adjusting ring to either end.

C-mount

C-mount usually is for installing CCD camera which has become trendy nowadays. C-mount has male screw of outer diameter 25.4mm. First, install C-mount adapter into microscope's C-mount. Second, insert main unit (with φ30mm conversion ring) into C-mount adapter and secure with screw on the side..

*only direct (1.0x) C-mount is compatible. C-mount with lens inside should not be used.

Olympus PT phototube

PT phototube has outer diameter of φ38mm with a curving thread at the top. U-SPT, SZ-PT phototubes are these standards. When 35mm camera or Polaroid system are already installed, it is usually PT phototube. It requires fixation sleeve [NY-BH (option)] to secure adapter to microscope

JIS phototube

JIS standard of outer diameter φ25mm, and inner diameter Φ23.2mm. Old models of Olympus microscope usually employed this standard. It requires fixation sleeve [NY-JIS (option)] to secure adapter to microscope

*Able to connect without NY-JIS, however the image may come out blurry.

Camera Setting

・・・Camera setting for capturing quality image.

* Please refer to camera's user's manual for initial setting and basic operation.

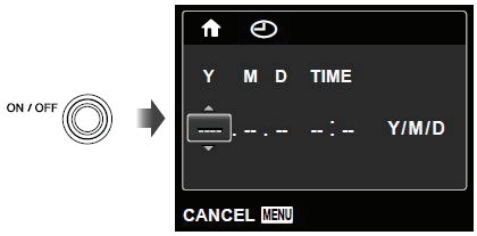
（＊Please refer to camera's user manual for blue page numbers）

1. Basic Setting for SP600UZ

○ Turn on the camera and set language, date and time ・・P12

Press［ON/OFF］button to turn on the camera.

* The data and time setting screen is displayed. Set the date and time using wheel controller, and press OK.



Date and time setting screen

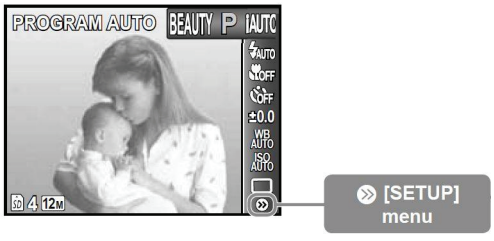
＜Wheel Controller＞

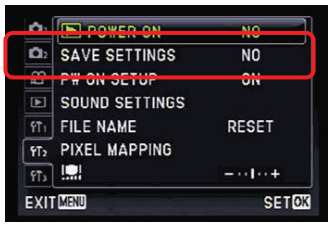
○ Setting shooting mode ・・・P4, 20

Press the MENU button to display function menu. Using wheel controller (right/left) set shooting mode to［iAUTO］and press OK

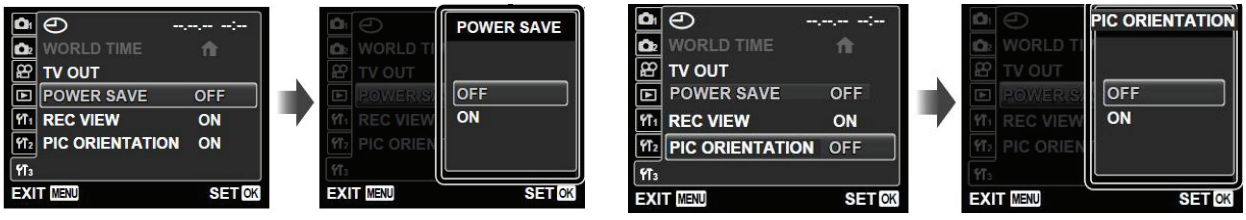
○ Other settings. ・・・P40, P45

Using wheel controller, and select ［SET UP］. In YT2 , select ［SAVE SETTINGS］and choose YES.





In YT3 , set ［POWER SAVE］ and ［PIC ORIENTATION］ off.



2. Shooting

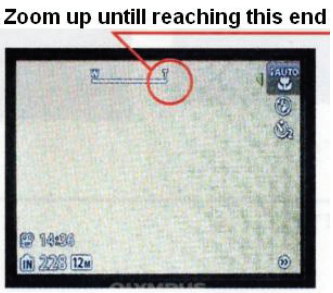
○ Installing adapter NY-SP600 to the camera

Secure adapter to camera body with screw at the side of SP600 attachment.

○ Setting Zoom • • • P15

Turn Zoom Lever to T side (right -side)

until vignette would be eliminated.

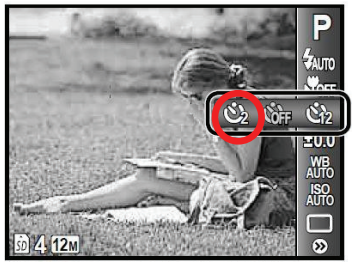


※ depending on the microscope,
point in which vignett disappear may differ

○ Setting sefl-timer • • • P26

Select self-timer option in the shooting function menu,

and set to 2 SEC



※ Set self timer for each shoot

○ Taking picture

Press shutter and picture will be taken in 2 second

Press movie button to record movie, press aging to stop.

3. Viewing image after shooting

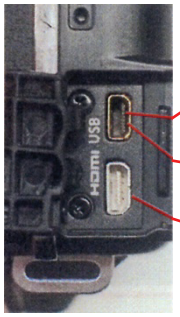
On the LCD monitor

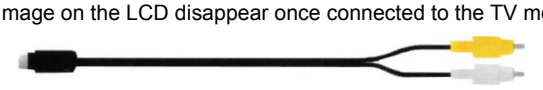
Press ▶ to view

Connect to PC • TV monitor P11, P44

Display captured image on TV using AV cable

※Image on the LCD disappear once connected to the TV monitor





USB cable to connect to PV

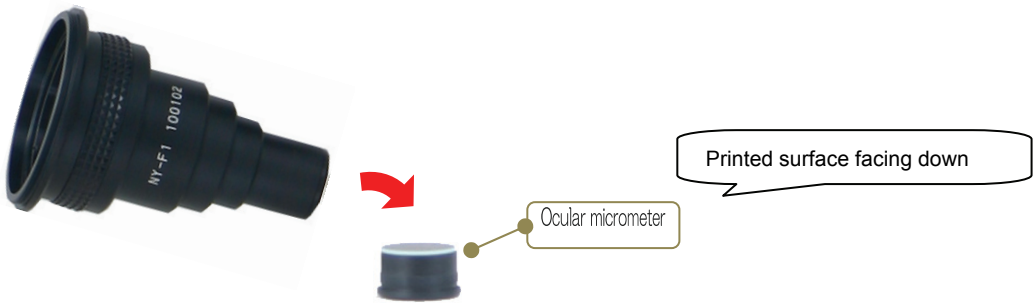
With HDMI cable (sold reparatory), able to display high-definition image on the TV monitor.

○Installing ocular micrometer (sold separately)

Ocular micrometer of size φ21mm can be installed into NY-SP600.

Turn the tip of adapter counter-clockwise to remove bracket for micrometer.

Put micrometer on the bracket with printed surface facing down, then reinstall to adapter body.



Micrometer designed for digital camera adapter 【S11-CF】

(10mm/100split pitch 0.1mm)

This special micrometer for digital camera adapter omitted the numbers entirely and moved scale to the periphery for clearer view.